



SDI Review Form 1.6

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2015_BJAST_17446
Title of the Manuscript:	EFFECTS OF NORMAL LOAD ON NANOTRIBOLOGY OF ZINC SULPHIDE (ZnS) AND CADMIUM SULPHIDE (CdS)
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	The article needs to strengthen the content and present the useful value in Abstract and Conclusion.	The useful value has been presented in conclusion as requested and highlighted in red. It is not necessary to repeat same in abstract.
<u>Minor</u> REVISION comments	1. The E_T and the E_{OS} in Si are same, but these are different in ZnS and CdS. Why? 2. Friction force in calculated values is larger than that in experimental values under a larger normal load $>50nN$. Why? 3. Although E_{OS} used in the normal load model for predicting friction force in silicon is almost right, this cannot prove this calculation to be suitable for the other materials (ZnS and CdS). 4. The introduction of these models needs to increase more description in this article.	1. The aim of the authors is to produce model which will be able to produce values of E_{OS} which will be as close as possible to E_T. Once there is a close agreement, it satisfies the aim. This is so because our aim is to produce models which will be able to predict experimental results. 2. The difference is small. Hence, there is still close agreement. 3. It should be noted that the models are mathematical equations. Hence once they can predict experimental results in an element, they can do same in other elements.
<u>Optional/General</u> comments	This article focuses on using the models and equations to develop a modified model for discussing the effects of normal load on nano-tribology of silicon, ZnS and CdS.	